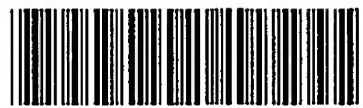


0570
0520

#3 OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/053,611

DATE: 05/21/2002

TIME: 14:19:36

Input Set : N:\Crf3\RULE60\10053611.raw
 Output Set: N:\CRF3\05212002\J053611.raw

1 <110> APPLICANT: Polyak, Kornelia
 2 Vogelstein, Bert
 3 Kinzler, Kenneth
 4 <120> TITLE OF INVENTION: Subtle Mitochondrial Mutations as Tumor
 5 Markers
 6 <130> FILE REFERENCE: 1107.82346
 7 <140> CURRENT APPLICATION NUMBER: 10/053,611
 8 <141> CURRENT FILING DATE: 2002-01-24
 10 <150> PRIOR APPLICATION NUMBER: US/09/377,856
 11 <151> PRIOR FILING DATE: 1999-08-20
 14 <150> PRIOR APPLICATION NUMBER: 60/097,307
 15 <151> PRIOR FILING DATE: 1998-08-20
 16 <160> NUMBER OF SEQ ID NOS: 1
 17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 16569
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 23 <400> SEQUENCE: 1
 24 gatcacaggt ctatcacctt attaaccact cacgggagct ctccatgcat ttggatttt 60
 25 cgtctggggg gtatgcacgc gatacgattt cgagacgctg gagccggagg accctatgtc 120
 26 gcagtatctg tctttgatttc ctgcctcattt ctattatttt tcgcacctac gttcaatattt 180
 27 acaggcgaac atacttacta aagtgtgtta attaattaat gctttaggtt cataataata 240
 28 acaattgaat gtctgcacag ccactttcca cacagacatc ataacaaaaaa atttccacca 300
 29 aaccccccct cccccgttc tggccacagc acttaaacac atctctgcca aacccaaaaa 360
 30 acaaagaacc ctaacaccag cctaaccaga tttcaaaattt tatcttttg cggtatgcac 420
 31 ttttaacagt caaaaaaaaa ctaacacattt atttccctt cccactccca tactactaat 480
 32 ctcataata caaaaaaaaaa ccatacttacc cagcacacac acaccgctgc taacccata 540
 33 ccccgaaacca accaaacccc aaagacacccc cccacagttt atgttagctt cctccataaa 600
 34 gcaatacact gaaaatgtt agacgggctc acatcccccc ataaacaaaat aggtttggtc 660
 35 ctggcttcc tattagctct tagtaagattt acacatgcaaa gcatccccgt tccagttagt 720
 36 tcacccctcta aatcaccacg atcaaaaggg acaagcatca agcacgcacg aatgcagctc 780
 37 aaaacgctta gcctagccac accccacgg gaaacagcag tgatttaacct ttagcaataa 840
 38 acgaaagtt aactaagctt tactaaccctt agggttggtc aatttcgtgc cagccaccgc 900
 39 ggtcacacga ttaacccaaag tcaatagaag ccggcgtaaa gagtgtttta gatcccccc 960
 40 tccccaaataa agctaaaactt cacctgagtt gtaaaaaactt ccagttgaca caaaatagac 1020
 41 tacgaaagt gctttaacat atctgaacac acaatagctt agacccaaac tgggatttaga 1080
 42 taccctacta tgcttagccc taaacctcaa cagttaaatc aacaaaactg ctcgcagaa 1140
 43 cactacgagc cacagctaa aactcaaagg acctggcggt gcttcataatc cctctagagg 1200
 44 agcctgttct gtaatcgata aaccccgatc aacctcacca cctcttgctc agcctatata 1260
 45 ccgcctatctt cagcaaaccc ttatgtgttcc tacaaagttt ggcacgtac ccacgtaaag 1320
 46 acgttaggtc aagggttagtcc catgtgggtt gcaagaaatg ggctacattt tctacccag 1380
 47 aaaactacga tagcccttat gaaacttaag ggtcgaaggt ggattttagca gtaaactaag 1440

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/053,611

DATE: 05/21/2002
TIME: 14:19:36

Input Set : N:\Crf3\RULE60\10053611.raw
Output Set: N:\CRF3\05212002\J053611.raw

48	agttagagtgc ttagttgaac agggccctga agcgcgtaca caccgcccgt caccctcctc	1500
49	aagtatactt caaaggacat ttaactaaaa cccctacgca ttatataaga ggagacaagt	1560
50	cgttaacatgg taagtgtact ggaaagtgc cttggacgaa ccagagtgt a gcttaacaca	1620
51	aagcacccaa cttacactt ggagattca acttaactt accgctctga gctaacccta	1680
52	gccccaaacc cactccacct tactaccaga caaccttagc caaaccattt acccaaataa	1740
53	agtataggcg atagaaattt aaacctggcg caatagatat agtaccgcaa gggaaagatg	1800
54	aaaaattata accaagcata atatagcaag gactaaccctt tataccctt gcataatgaa	1860
55	ttaactagaa ataacttgc aaggagagcc aaagctaaga ccccccggaaac cagacgagct	1920
56	acctaagaac agctaaaaga gcacacccgt ctatgttagca aaatagtggg aagattata	1980
57	ggttagaggcg acaaacc tac cgagcctggt gatagctgg t tgccaagat agaatcttag	2040
58	ttcaacttta aatttgccca cagaaccctc taaatcccct t gtaaaattt actgttagtc	2100
59	caaagaggaa cagctcttg gacacttagga aaaaacctt tagagagatg aaaaatttta	2160
60	acacccatag taggcctaaa agcagccacc aattaagaaa gcgttcaagc tcaacaccca	2220
61	ctacctaaaa aatcccaa ac atataactga actcctcaca cccaattt gga ccaatctatc	2280
62	accctataga agaactaatg ttagtataag taacatgaaa acattctcctt ccgcataagc	2340
63	ctgcgtcaga taaaacact gaactgacaa ttaacagccc aatatctaca atcaaccaac	2400
64	aagtcttata tacccttact gtcaacccaa cacaggcatg ctcataagga aaggtaaaa	2460
65	aaagtaaaag gaactcggca aatcttaccc cgcctgttta ccaaaaacat cacctctagc	2520
66	atcaccagta ttagaggcac cgccctgccc gtgacacatg ttaacggcc gcggtaccct	2580
67	aaccgtgcaa aggttagcata atcaactt gtt cttaaatag ggacctgtat gaatggctcc	2640
68	acgagggttc agctgtctt tactttt aac cagtcata gatgaaattt gacctgccc tgaagaggcg	2700
69	ggcataaac ac agcaagacga gaagacccta tggagcttta atttattaaat gcaaaacagta	2760
70	cctaaacaa ac ccacagg tcc taaactacca aacctgcatt aaaaatttgc gttggggcga	2820
71	cctcggagca gaacccaa acc tcc gagcagt acatgctaag acttcaccag tcaaagcgaa	2880
72	ctactatact caattgtatcc aataacttga ccaacgaa ac aagttaccctt aggataaca	2940
73	g c g c a a t c c t attctagatg ccataatcaac aatagggtt acgacctcg t gttgatca	3000
74	ggacatcccg atggcgcagc cgctttaaa ggttcgtttt tcaacacgatt aaagtcctac	3060
75	gtgatctgag ttcaagccgg agtaatccag gtcggtttct atctaccctt aaattcctcc	3120
76	ctgtacgaaa ggacaagaga aataaggcct acttcacaaa ggccttccc ccgtaaatga	3180
77	tatcatctca acttagtattt atacccacac ccacccaa aga acagggtttt ttaagatggc	3240
78	agagcccggt aatcgatcaa aactttaaaac ttacagtca gaggttcaat tccttttctt	3300
79	aacaacatac ccatggccaa cctctactc ctcattgtac ccattctaaat cgcaatggca	3360
80	ttcctaatttgc ttaccgaacg aaaaatttca ggcataatac aactacgcaa aggccccaaac	3420
81	gtttaggcc cctacggct actacaaccc ttgcgtacg ccataaaaact cttcacccaa	3480
82	gagccctaa aacccgcac atctaccatc accctctaca tcaccgcccc gaccttagct	3540
83	ctcaccatcg ctcttact atgaacccccc ctcccttatac ccaacccccc ggtcaacctc	3600
84	aacctaggcc tccttattt tctagccacc tctagctag ccgtttactc aatcccttga	3660
85	tcagggtag g catcaaactc aaactacgca ctgatggcg cactgcgagc agtagccaa	3720
86	acaatctcat atgaagtca cctagccatc attctactat caacattact aataagtggc	3780
87	tcctttaacc tctccaccc tatcacaaca caagaacacc tctgattact cctgccatca	3840
88	tgacccttgg ccataatatg atttatctcc acactagcag agaccaaccg aaccccttc	3900
89	gaccttgcgc aaggggagtc cgaacttagtc tcaggcttca acatgaaata cgccgcaggc	3960
90	cccttcgccc tatttttcat agccgaatac acaaaccattt ttataataaa caccctcacc	4020
91	actacaatct tccttaggaac aacatatgac gcaacttccc ctgaaactcta cacaacat	4080
92	tttgtacca agaccctact tctaaaccttcc ctgttctt gat tgcgaa acgataaccc	4140
93	cgattccgct acgaccaact catacacctc ctatgaaaaa acttccttacc actcacccta	4200
94	gcattactt tatgatatgt ctccatatacc attacaatct ccagcattcc ccctcaaacc	4260
95	taagaaat atgtctgataaa agagttactt t gatagatgta aataatagga gcttaaacc	4320
96	ccttatttctt aggactatga gaatcgaaacc catccctgag aatccaaaat tctccgtcc	4380

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/053,611

DATE: 05/21/2002

TIME: 14:19:36

Input Set : N:\CrF3\RULE60\10053611.raw
 Output Set: N:\CRF3\05212002\J053611.raw

97	acctatcaca ccccatccta aagtaaggc agctaaataa gctatcgccc ccataccccg	4440
98	aaaatgttgg ttataccctt cccgtactaa ttaatcccc ggcggcaacc gtcatctact	4500
99	ctaccatctt tgcaggcaca ctcatcacag cgctaaagtc gcactgattt tttaccttag	4560
100	taggcctaga aataaaatcg cttagctttt ttccagttct accaaaaaaa ataaaccctc	4620
101	gttccacaga agctgccatc aagtatttcc tcacgcaagc aaccgcattt ataaatcc	4680
102	taatagctat cctcttcaac aatatactct ccggacaatg aaccataacc aataactacca	4740
103	atcaaatactc atcattaata atcataatacg ctatagcaat aaaacttagga atagccccct	4800
104	ttoacttctg agtcccagag gttacccaag gcaccctct gacatccggc ctgcttcttc	4860
105	tcacatgaca aaaactagcc cccatctcaa tcataatcca aatctctccc tcactaaacg	4920
106	taaggcttctt cctcaacttc tcaatcttat ccatcatagc aggtagttaa ggtgattaa	4980
107	accagaccca gotacgaaaa atcttagcat actcctcaat tacccacata ggatgaaataa	5040
108	tagcagttctt accgtacaac cctaacataa ccattcttaa ttaactatt tatattatcc	5100
109	taactactac cgcattccta ctactcaact taaactccag caccacgacc ctactactat	5160
110	ctcgcacctg aaacaagcta acatgactaa cacccttaat tccatccacc ctccctctccc	5220
111	taggaggcct gccccgccta accggcttt tgcccaatg gccattatc gaagaattca	5280
112	caaaaaacaa tagcctcatc atccccacca tcataggcc catcaccctc cttAACCTCT	5340
113	acttctacatc acgcctaatac tactccacat caatcacact actccccata tctaacaacg	5400
114	taaaaataaaa atgacagttt gaacatacaa aacccacccc attccctcccc acactcatcg	5460
115	cccttaccac gctactccta cctatctccc ctttataact ataatctta tagaaattta	5520
116	ggttaaatac agaccaagag ccttcaaagc cctcagtaag ttgcaataact taatttctgt	5580
117	aacagctaag gactgaaaa ccccactctg catcaactga acgcaaatca gccactttaa	5640
118	ttaagctaag cccttactag accaatggga cttaaaccctaa caaacactta gttaacagct	5700
119	aagcacccta atcaactggc ttcaatctac ttctccgccc gccggggaaaa aaggcgggag	5760
120	aagccccggc aggttgaag ctgcttcttc gaatttgcaa tcaatatga aaatcacctc	5820
121	ggagctggta aaaagaggcc taaccctgt cttagattt acagtccat gcttactca	5880
122	gccatTTTAC ctcacccca ctgatgttcg cgcacgttg actattctt acaaaccaca	5940
123	aagacattgg aacactatac ctattattcg ggcacatgagc tggagtccca ggcacagctc	6000
124	taagcctcct tattcgagcc gagctggcc agccaggcaa ccttcttagt aacgaccaca	6060
125	tctacaacgt tattgtcaca gcccatgcat ttgtataat cttcttcata gtaataccca	6120
126	tcataatcgg aggcttggc aactgactag ttcccataat aatcggtgcc cccgatatgg	6180
127	cgttcccccg cataaaacaac ataagcttct gactcttacc tccctctctc ctactcctgc	6240
128	tcgcacatcgc tatagtggag gccggagcag gaacaggtt aacagtctac ctcctcttag	6300
129	cagggacta ctccccccct ggacgcctccg tagacctaac catcttctcc ttacacctag	6360
130	cagggtctc ctctatctta gggccatca atttcatcac aacaattatc aatataaaaac	6420
131	ccctgcctt aacccaatac caaacgcggcc tttctgtctg atccgtccata atcacagcag	6480
132	tcctacttct cctatctctc ccagtcttag ctgctggcat cactatacta ctaacagacc	6540
133	gcacaccaa caccacccctt ttgcacccccc cggaggagg agacccatt ctataccaa	6600
134	acctattctg atttttcggt caccctgaag ttatattct tattcttacca ggcttcggaa	6660
135	taatctccca tattgttaact tactactccg gaaaaaaaaa accatTTGGA tacataggt	6720
136	tggctgagc tatgatatca attggcttcc tagggtttat cgtgtgagca caccatata	6780
137	ttacagtagg aataagacgta gacacacgag catatttcac ctccgttacc ataatcatcg	6840
138	ctatccccac cggcgtaaaa gtatTTAGCT gactcgccac actccacgga agcaatatga	6900
139	aatgatctgc tgcagtgctc tgagccctag gattcatctt tctttcacc gtaggtggcc	6960
140	tgactggcat tgtatttagca aactcatcac tagacatcg actacacgac acgtactacg	7020
141	tttaggccccca ttccactat gtcctatcaa taggagctgt atttgccatc ataggaggct	7080
142	tcattactg attttccctt ttctcaggct acaccctaga ccaaaccctac gccaaaatcc	7140
143	atttcactat catattcatc ggcgttaaaatc taactttctt cccacaacac tttctcgccc	7200
144	tatccggaaat gccccgacgt tactcgact accccgatgc atacaccaca tgaaacatcc	7260
145	tatcatctgt aggctcatttcc atttctctaa cagcagtaat attaataatt ttcatgattt	7320

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/053,611

DATE: 05/21/2002
TIME: 14:19:37

Input Set : N:\Crf3\RULE60\10053611.raw
Output Set: N:\CRF3\05212002\J053611.raw

146	gagaaggcctt	cgcttcgaag	cgaaaagtcc	taatagtaga	agaaccctcc	ataaacctgg	7380
147	agtgactata	tggatcccc	ccaccctacc	acacattcga	agaaccgcgt	tacataaaat	7440
148	ctagacaaaa	aaggaaggaa	togaacccc	caaagctgg	ttcaagccaa	ccccatggcc	7500
149	tccatgactt	tttcaaaaag	gtattagaaa	aaccattca	taactttgtc	aaagttaaat	7560
150	tataggctaa	atcctatata	tcttaatggc	acatgcagcg	caagtaggtc	tacaagacgc	7620
151	tacttcccct	atcatagaag	agcttatcac	ctttcatgtat	cacgcctca	taatcatttt	7680
152	ccttatctgc	ttccttagtcc	tgtatgccct	tttcctaaca	ctcacaacaa	aactaactaa	7740
153	tactaacatc	tcagacgctc	aggaaataga	aaccgtctga	actatcctgc	ccgccccatcat	7800
154	cctagtcctc	atcgccctcc	catccctacg	catccttac	ataacagacg	aggtaaacga	7860
155	tccctccctt	accatcaaata	caattggcca	ccaatggtac	tgaacctacg	agtacaccga	7920
156	ctacggcgga	ctaatttca	actcttacat	acttccccca	ttattcttag	aaccaggcga	7980
157	cctgcgactc	cttgacgttg	acaatcgagt	agtactccc	attgaagccc	ccattcgtat	8040
158	aataattaca	tcacaagacg	tcttgcactc	atgagctgtc	cccacattag	gtttaaaaac	8100
159	agatgcaatt	ccggacgctc	taaaccacaa	cacttcacc	gotacacgac	cgggggtata	8160
160	ctacggtcaa	tgctctgaaa	tctgtggagc	aaaccacagt	ttcatgccca	tcgtcctaga	8220
161	attaattccc	ctaaaaatct	ttgaaaatagg	gcccgtattt	accctatacg	accccctcta	8280
162	ccccctctag	agcccactgt	aaagctaact	tagcattaac	cttttaagg	aaagattaag	8340
163	agaaccaaca	cctcttaca	gtgaaaatgcc	ccaactaaat	actaccgtat	ggccaccat	8400
164	aattaccccc	atactccta	cactattcct	catcacccaa	ctaaaaatata	taaacacaaa	8460
165	ctaccaccta	cctccctcac	caaagcccat	aaaaataaaa	aattataaca	aaccctgaga	8520
166	acccaaatga	acgaaaatct	gttcgttca	ttcattgccc	ccacaatcct	aggcttaccc	8580
167	gccgcgtac	tgatcattct	atttccccct	ctattgtatcc	ccacctccaa	atatctcatc	8640
168	aacaaccgac	taatcaccac	ccaaacaatga	ctaataaaac	taacctcaaa	acaatgata	8700
169	accatacaca	acactaaagg	acgaacctga	tctcttatac	tagtaccc	aatcatttt	8760
170	attgccacaa	ctaaccctct	cggactcctg	cctcaactcat	ttacaccaac	caccaacta	8820
171	tctataaaacc	tagccatggc	catccccctta	tgagcggca	cagtgattat	aggcttcgc	8880
172	tctaaagatta	aaaatgccct	agcccacttc	ttaccacaa	gcacacccat	accccttatac	8940
173	cccatactag	ttattatcga	aaccatcagc	ctactcatc	aaccaatagc	cctggccgta	9000
174	cgcctaaccg	ctaacattac	tgcaaggccac	ctactcatgc	acctaattgg	aagcgccacc	9060
175	ctagcaatat	caaccattaa	cctccctct	acacttatca	tcttcacaat	tctaattctca	9120
176	ctgactatcc	tagaaatcgc	tgtcgccctta	atccaaggct	acgttttcac	acttcttagta	9180
177	agcctctacc	tgcacgacaa	cacataatga	cccaccaatc	acatgcctat	catatagtaa	9240
178	aacccagccc	atgaccctta	acaggggccc	tctcagccct	cctaattgacc	tccggccctag	9300
179	ccatgtgatt	tcacttccac	tcacataacgc	tcctcataact	aggcctacta	accaacacac	9360
180	taaccatata	ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataacaa	ggccaccaca	9420
181	caccacctgt	ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	9480
182	ttttttcgc	aggattttc	tgagcctttt	accactccag	cctagccct	accccccata	9540
183	taggaggc	ctggccccc	acaggcatca	ccccgtaaa	tcccctagaa	gtcccactcc	9600
184	taaacacatc	cgttattactc	gcatcaggag	tatcaatcac	ctgagctcac	catagtctaa	9660
185	tagaaaacaa	ccgaaaccaa	ataattcaag	cactgcttat	tacaatttt	ctgggtctct	9720
186	attttaccc	cctacaagcc	tcagactact	tcgagctcc	tttcaccatt	tccgacggca	9780
187	tctacggctc	aacattttt	gtagccacag	gttccacgg	acttcacgtc	attattggct	9840
188	caacttccct	caactatctgc	ttcatccgccc	aactaatatt	tcactttaca	tccaaacatc	9900
189	actttggctt	cgaagccgccc	gcctgatact	ggcattttgt	agatgtgggt	tgactatttc	9960
190	tgtatgtctc	catctattga	tgagggtctt	actcttttag	tataaatagt	accgttaact	10020
191	tccaaattaaac	tagtttgac	aacattcaaa	aaagagtaat	aaacttcgccc	ttaattttaa	10080
192	taatcaacac	cctcctagcc	ttactactaa	taattattac	attttgacta	ccacaactca	10140
193	acggctacat	agaaaaatcc	accccttacg	agtgcggctt	cgaccctata	tccccggccc	10200
194	gcgtcccttt	ctccataaaaa	ttcttcttag	tagctattac	tttcttattta	tttgatctag	10260

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/053,611

DATE: 05/21/2002
TIME: 14:19:37

Input Set : N:\Crf3\RULE60\10053611.raw
Output Set: N:\CRF3\05212002\J053611.raw

195	aaattgccct cctttaccc ctaccatgag ccctacaaac aactaacctg ccactaatag	10320
196	ttatgtcatc cctcttatta atcatcatcc tagccctaag tctggccatat gagtactac	10380
197	aaaaaggatt agactgaacc gaattggtat atagttaaa caaaacgaat gatttcgact	10440
198	cattaaatta tgataatcat atttaccaa tgcccctat ttacataat attatactag	10500
199	catttaccaat ctcacttcta ggaatactag tatatcgctc acacctcata tcctccctac	10560
200	tatgcctaga aggaataata ctatcgctgt tcattatagc tactctcata accctcaaca	10620
201	cccaactccct cttagccaat attgtgccta ttgcctatact agtctttgcc gcctgcgaag	10680
202	cagcgggtggg cctagcccta cttagtctcaa tctccaaacac atatggccata gactacgtac	10740
203	ataaacctaaa cctactccaa tgctaaaact aatcgccccca acaattatata tactaccact	10800
204	gacatgactt tccaaaaaac acataatttg aatcaacaca accacccaca gcctaaattat	10860
205	tagcatcatc cctctactat ttttaacca aatcaacaac accctattta gctttcccc	10920
206	aacctttcc tccgaccccc taacaacccc cctccataata ctaactacat gactcctacc	10980
207	cctcacaatc atggcaagcc aacgcccattt atccagtgaa ccactatcac gaaaaaaaaact	11040
208	ctacctctct atactaatct ccctacaaat ctccttaatt ataacattca cagccacaga	11100
209	actaaatcata ttttatatct tcttcgaaac cacacttatacccaccccttgg ctatcatcac	11160
210	ccgatgaggg aaccaggccag aacgcctgaa cgccaggaca tacttcctat tctacaccct	11220
211	agtaggctcc cttccctacatc tcatcgact aatttacact cacaacaccc taggtcaact	11280
212	aaacattctta ctactcactc tcaactgcccc agaactatca aactccttag ccaataactt	11340
213	aatatgacta gcttacacaa tagctttat agtaaagata cctctttacg gactccactt	11400
214	atgactccct aaagccatg tgoaagcccc catcgctggg tcaatagtac ttgccgcagt	11460
215	actcttaaaa ctaggccgtt atggtataat acgcctcaca ctcattctca accccctgac	11520
216	aaaacacata gcctacccct tcottgtact atccctatga ggcataatataa taacaagctc	11580
217	catctgccta cgacaaacag acctaaaatc gctcattgca tactcttcaa tcagccacat	11640
218	agccctcgta gtaacagcca ttctcatcca aacccctga agcttcaccc ggcgcgtcat	11700
219	tctcataatc gcccacgggc ttacatcctc attactattc tgcctagcaa actcaaacta	11760
220	cgaacgcact cacagtgcga tctataatcct ctctcaagga cttccaaactc tactccact	11820
221	aatagctttt tgatgacttc tagcaagccct cgctaacctc gccttacccc ccactattaa	11880
222	cctactggga gaactctctg tgcttagtaac cacgttctcc tgatcaaata tcactctcct	11940
223	acttacagga ctcaacatac tagtacacagc cctatactcc ctctacatata ttaccacaac	12000
224	acaatggggc tcactcacc accacattaa caacataaaa ccctcattca caccggaaaa	12060
225	cacccctcatg ttccatcaccc tateccccat tctccctat tccctcaacc ccgacatcat	12120
226	taccgggttt tcctcttgta aatatagttt aacccaaaca ttagatttg aatctgacaa	12180
227	cagaggctta cgaccctta ttaccgaga aagctcaca gaactgtcaa ctcatgcccc	12240
228	catgtctaac aacatggctt tctcaacttt taaaggataa cagctatcca ttggctttag	12300
229	gccccaaaaaa ttttggtgca actccaaata aaagtaataa ccatgcacac tactataacc	12360
230	accctaaccct tgactccct aattcccccc atccttacca ccctcgtaaa ccctaaacaaa	12420
231	aaaaactcat accccattaa tgaaaatcc attgtcgcat ccaccttat tatcgtctc	12480
232	ttccccacaa caatattcat tgccctagac caagaagttt ttagtctgaa ctgacactga	12540
233	gccacaaccc aaacaaccca gctccctata agcttcaaact tagactactt ctccataata	12600
234	ttcatccctg tagcattgtt cgttacatgg tccatcatag attctcaact gtgatata	12660
235	aactcagacc caaacattaa tcagttcttcc aaatactac tcatcttccctt aattaccata	12720
236	ctaattcttag ttaccgctaa caacattttc caactgttca tcggctgaga gggcgtagga	12780
237	attatatctt tcttgctcat cagttgtatc tacgccccag cagatgcccc cacagcagcc	12840
238	attcaagcaa tcctataacaa ccgtatcgcc gatatcggtt tcatctcgc cttagcatga	12900
239	tttattcttac actccaactc atgagaccca caacaaatag cccttctaaa cgctaatcca	12960
240	agcctcaccct cactactagg cctccctatc gcaagcagcag gcaaatcagc ccaattaggt	13020
241	ctccacccctt gactccctc agccatagaa ggccccaccc cagtcctcagc cctactccac	13080
242	tcaaggacta tagttgtac aggaatcttcc ttactcatcc gcttccaccc cctagcagaa	13140
243	aatagccac taatccaaac tctaacaacta tgcttaggcg ctatcaccac tctgttcgca	13200

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/053,611

DATE: 05/21/2002
TIME: 14:19:38

Input Set : N:\Crf3\RULE60\10053611.raw
Output Set: N:\CRF3\05212002\J053611.raw